

WHAT IS CLAIMED IS:

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1. A computing apparatus comprising:  
a digital data storage device;  
a logic circuit configured to receive digital data from a host processor  
and to forward said digital data to said digital data storage device in an  
encrypted form;  
a non-volatile memory location in or connected to said logic circuit  
which stores an identification code; and  
a key accessed by said logic circuit to define at least in part an encryption  
process, wherein said key is derived at least in part from said identification code.
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2. The computing apparatus of Claim 1, wherein said identification code is  
assigned to and associated specifically with said computing apparatus.
3. The computing apparatus of Claim 1, wherein said logic circuit is  
configured to retrieve said identification code from said non-volatile memory location  
without intervention by said host processor.
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4. The computing apparatus of Claim 3, wherein said logic circuit is  
configured to verify said key without intervention by said host processor.
5. The computing apparatus of Claim 1, wherein said logic circuit  
additionally comprises a circuit for selectively disabling said logic circuit from  
encrypting said digital data.
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6. The computing apparatus of Claim 1, wherein said key is derived in part  
from said identification code and in part from user input.
7. A computer comprising:  
a plurality of data storage media drives;  
a data path connected between said plurality of data storage media drives  
and a source of data for storage onto media associated with said data storage  
media drives;  
a logic circuit coupled to said data path, said logic circuit being  
configurable to enable encrypting of data being routed to a selectable subset of  
said plurality of data storage media drives.
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8. The computer of Claim 7, wherein said plurality of data storage media drives includes one or more hard disk drives, and one or more floppy disk drives.

9. The computer of Claim 7, wherein said logic circuit additionally comprises:

5 a non-volatile memory location which stores an identification code; and  
a second memory location coupled to said logic circuit which stores an encryption key derived at least in part from said identification code, wherein said key is accessed by said logic circuit to encrypt said digital data for storage on said data storage media drives.

10 10. The computing apparatus of Claim 9, wherein said identification code is assigned to and associated specifically with said computer.

11. A data processing system comprising:

a data source;  
at least one data storage device;  
15 a logic circuit coupled to receive digital data from said data source and to route digital data to said data storage device;  
a non-volatile memory coupled to said logic circuit with a serial data bus, said read only memory containing a hardware identifier;  
a key register coupled to said logic circuit, said key register storing a key for performing data encryption, wherein said key is derived at least in part from  
20 said identification code; and  
a configuration register coupled to said logic circuit, wherein said configuration register contains information enabling said logic circuit to perform encryption on digital data received from said data source using said key prior to  
25 storing encrypted digital data on said at least one data storage device.

12. The data processing device of Claim 11, further comprising at least two data storage devices, wherein said configuration register contains information enabling data encryption of data routed to a first one of said at least two data storage devices, and wherein said configuration register contains information disabling data encryption of  
30 data routed to a second one of said at least two data storage devices.

13. A circuit for encrypting data in a computing system comprising:

a first memory location storing an identification code; and

a logic circuit comprising a second memory location and an encryption engine, said logic circuit configured to receive said identification code from said first memory location and to store a key for use by said encryption engine, said key being derived at least in part from said identification code in said second memory location.

14. The circuit of Claim 13, wherein said first memory location resides on a first integrated circuit, and wherein said logic circuit resides on a second integrated circuit separate from said first integrated circuit.

15. The circuit of Claim 14, wherein said first and second integrated circuits are coupled by a serial data bus.

16. A computer system comprising:

host computing logic;

means for storing an identification code associated with said host computing logic;

means for deriving a key for data encryption at least in part from said identification code.

17. The computer system of Claim 16, wherein said means for deriving a key additionally comprises means for deriving a key at least in part from user input to said computer system.